Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (previously presented) A polymer powder produced by a process of milling or precipitating comprising a surface which is compact and not jagged.

2. (previously presented) A polymer powder for producing a three-dimensional object by means of laser sintering, wherein the powder comprises a BET-surface which is smaller than 6 m^2/g and at the same time the upper grain limit is below 100μm, the $D_{0.9}$-value is below 90 μm, and the $D_{0.5}$-value is below 60 μm and the particles comprise a basically spherical shape.

Claims 3-17 (cancelled)

18. (previously presented) A polymer powder according to claim 1 for producing a three-dimensional object by means of laser sintering, wherein the powder comprises a BET-surface which is smaller than 5 m^2/g and at the same time the upper grain limit is below 100μm, the $D_{0.9}$-value is below 80 μm, and the $D_{0.5}$-value is below 55 μm and the particles comprise a basically spherical shape

19. (previously presented) A powder according to claim 1, wherein the powder has a BET-surface having a value smaller than or equal to 4 m^2/g.

20. (previously presented) A powder according to claim 19, wherein the powder has a BET-surface having a value smaller than or equal to 3 m^2/g.

21. (previously presented) A powder according to claim 20, wherein the powder has a BET-surface having a value smaller than or equal to 2 m^2/g.

22. (previously presented) A powder for manufacturing a three-dimensional object by means of laser sintering according to claim 1, wherein a laser sintering refreshing factor is less than 50 percent.

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23. (previously presented) A powder according to claim 22, wherein the refreshing factor is less than 30 percent.

24. (previously presented) A powder according to claim 1, wherein the powder is a polyamide powder.

25. (previously presented) A powder according to claim 1, wherein the powder consists of polyamide 11 or polyamide 12.

26. (previously presented) A powder according to claim 24, wherein the powder is a precipitated PA12 powder.

27. (previously presented) A polymer powder according to claim 2 for producing a three-dimensional object by means of laser sintering, wherein the powder comprises a BET-surface which is smaller than 5 m^2/g and at the same time the upper grain limit is below 100µm, the $D_{0.9}$-value is below 80 µm, and the $D_{0.5}$-value is below 55 µm and the particles comprise a basically spherical shape

28. (previously presented) A powder according to claim 2, wherein the powder has a BET-surface having a value smaller than or equal to 4 m^2/g.

29. (previously presented) A powder according to claim 28, wherein the powder has a BET-surface having a value smaller than or equal to 3 m^2/g.

30. (previously presented) A powder according to claim 29, wherein the powder has a BET-surface having a value smaller than or equal to 2 m^2/g.

31. (previously presented) A powder for manufacturing a three-dimensional object by means of laser sintering according to claim 2, wherein a laser sintering refreshing factor is less than 50 percent.

32. (previously presented) A powder according to claim 31, wherein the refreshing factor is less than 30 percent.

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33. (previously presented) A powder according to claim 2, wherein the powder is a polyamide powder.

34. (previously presented) A powder according to claim 2, wherein the powder consists of polyamide 11 or polyamide 12.

35. (previously presented) A powder according to claim 33, wherein the powder is a precipitated PA12 powder.

36. (previously presented) A method for producing a powder according to one of claims 1, 2, 18-35, wherein as a base material a plastic powder attained by means of precipitation or milling is used which is mechanically or mechanically-thermally mixed for at least one minute in an appropriate aggregate.

37. (previously presented) A method according to claim 36 wherein the base material has at least one further powder component.

38. (previously presented) A method according to claim 37 wherein a further powder component is a polymer powder or an additive.

39. (previously presented) A method for manufacturing a three-dimensional object by means of laser sintering wherein subsequent layers of the object to be formed are subsequently solidified from solidifiable powder material in positions corresponding to the object and a powder according to claims 1, 2, 18-35 is used as powder material.

40. (previously presented) A method according to claim 39 wherein the powder base material has at least one further powder component.

41. (previously presented) A method according to claim 40 wherein a further powder component is a polymer powder or an additive.

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